

ANNUAL REPORT
OF THE
New Jersey State
Museum

1912

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ANNUAL REPORT
OF THE
NEW JERSEY STATE
MUSEUM.

Including the Indexes of the Reports of
1905, 1906, 1907, 1908, 1909,
1910 and 1911

1912

UNION HILL, N. J.
DISPATCH PRINTING COMPANY,

1913
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1870
1871
1872

Commissioners of the New Jersey State Museum.

STATE COMMISSIONER OF EDUCATION, CALVIN N. KENDALL, *President.*

STATE GEOLOGIST, HENRY B. KUMMEL, *Secretary.*

PRESIDENT STATE BOARD OF AGRICULTURE, JOS. S. FRELINGHUYSEN.

PRESIDENT OF THE SENATE, JOHN D. PRINCE.

SPEAKER OF THE HOUSE, THOMAS F. MCCRAN.

SILAS R. MORSE, *Curator.*

Heads of the Several Departments of the New Jersey State Museum

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Educational.

JACOB G. LIPMAN, PH. D., RUTGERS COLLEGE,
Agriculture.

HENRY B. KUMMEL, STATE GEOLOGIST,
Geology.

JOHN C. SMOCK, EX-STATE GEOLOGIST,
Forestry.

THOMAS J. HEADLEE, PH. D., STATE ENTOMOLOGIST,
Entomology.

JAMES T. MORGAN, DEPUTY OF BUREAU OF LABOR STATISTICS,
Manufactures.

HERBERT M. LLOYD, SECRETARY OF GEOLOGICAL SURVEY,
Archaeology.

Letter of Transmittal.

TRENTON, N. J., November 30th, 1912.

*To the Honorable Woodrow Wilson, Governor of the
State of New Jersey:*

SIR.—I have the honor to present, for the Commissioners of the New Jersey State Museum, the annual report, including a report of the indexes of the reports of 1905, 1906, 1907, 1908, 1909, 1910 and 1911.

SILAS R. MORSE,

Curator.

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PART 1.

Curator's Report

The report this year consists mostly of the indices of the Report for 1905, "The Fish of New Jersey"; the Report for 1906, "The Amphibian and Reptiles of New Jersey"; the Report for 1907, "The Mammals of New Jersey"; the Report for 1908, "The Birds of New Jersey"; the Report for 1909, "The Insects of New Jersey"; the Report for 1910, "The Plants of Southern New Jersey, With Especial Reference to the Flora of the Pine Barrens"; and the Report for 1911, "The Crustacea (Crabs) of New Jersey." This is done, as several of the reports have supplements in other reports, and in this way the subject or name can be readily found.

It is the intention of the Museum Commission to place this report in the State and school libraries and institutions having a set of the Reports of the New Jersey State Museum on the Natural History Subjects. The report will contain an indices of the technical and common names and also the illustrations of these reports. We believe it will be a great benefit to those who wish to consult the reports.

THE REPORT FOR 1911.

The Museum Commission was greatly disappointed in the Report for 1911. We intended to have for the natural history part of the report a paper on "The Fresh and Salt Water Shell Fish of New Jersey." It was very nearly completed when the compiler of the paper was taken sick, and therefore could not finish this part of the report. So we then had to substitute for that part "The Crustacea of New Jersey," by Mr. Henry W. Fowler, of the Academy of Natural Sciences, at Philadelphia, who compiled the papers on "The Fish of New Jersey" and the paper on "The Amphibians and Reptiles of New Jersey." The paper on the Crustacea was intended for a later report, but Mr. Fowler kindly consented to prepare the paper at a great sacrifice to himself, as he was obliged to give up his vacation. On account of this delay the 1911 report is late in being distributed.

We hope to be able to have the Shell Fish paper ready for the next year's report.

VISITORS.

The Museum is open during the hours that the State House is open to the public. A cordial invitation is extended to the people to visit the Museum. Many pupils of the schools take advantage of the Museum to study natural history. Classes from the public and private schools come chaperoned by teachers. The number of visitors during the past year has been larger than any previous year. The regret is that we do not have room enough to display the specimens to a good advantage, but we hope soon to have more room. A large part of the exhibits cannot be shown in our present rooms for want of space. A large part of the educational exhibit has to be stored where it cannot be seen, which is greatly regretted.

THE MUSEUM REPORTS APPRECIATED.

To show in part how the natural history reports of the New Jersey State Museum are appreciated we quote a few of the many letters we have received from prominent persons and educators:

Princeton, N. J.
February 14th, 1907.

S. R. MORSE, ESQ.,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my sincere thanks for a copy of your last annual report on the fishes of New Jersey. I have examined it with great interest and do not doubt that I will find it in the future a valuable book of reference.

Yours very truly,

(Signed) GROVER CLEVELAND.

State of New Jersey,
Executive Department,
February 20, 1911.

S. R. MORSE.
My Dear Mr. Morse:—

I am obliged to you for your thoughtful kindness in sending me a copy of the report on insects of New Jersey, but I am sorry to say that inasmuch as I am at present living in a hotel, there is no place for me to keep books, and I would be very much obliged if you would keep reports intended for me on file in your office so that I may have access to them at some subsequent time.

Sincerely yours,

(Signed) WOODROW WILSON.

Mr. S. R. Morse,
Trenton, N. J.

TESTIMONIALS.

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February 28th, 1912.

MR. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

I thank you very much for sending me a copy of the last report of the New Jersey State Museum, "The Plants of New Jersey," which I will examine with great interest.

Yours very truly,

(Signed) JOHN D. PRINCE.

State of New Jersey,
Senate Chamber,
John D. Prince, Pres.

Plainfield, N. J., February 21st, 1912.

PROF. S. R. MORSE,
Curator State Museum,
Trenton, N. J.

Dear Prof. Morse:—

It was indeed a pleasure to receive from you one of the last Museum reports, "The Plants of New Jersey," and I sincerely thank you for your courtesy for keeping my name on your mailing list. If you can do so conveniently and consistently, I will appreciate two additional copies.

Sincerely yours,

(Signed) ERNEST R. ACKERMAN.

HON. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The last report of the State Museum has been received. It is an interesting and instructive report. You are doing a good work.

Very truly yours,

E. C. STOKES.

12 REPORT OF NEW JERSEY STATE MUSEUM.

Commonwealth of Virginia,
Governor's Office,
Richmond, April 27th, 1912.

S. R. MORSE, Esq., *Curator,*
Trenton, N. J.

Dear Mr. Morse:—

I have received the last report, "The Flora of Southern New Jersey," and find it a very interesting and able production.

Very truly yours,

(Signed) WM. HODGES MANN,
Governor.

UNITED STATES SENATE,
WASHINGTON.

Elizabeth, N. J., October 30, 1906.

PROF. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my thanks for the Report of the State Museum, and your letter of the 29th in regard thereto, duly received. I am very glad to have this report; it is a very interesting and instructive publication.

Very truly yours,

(Signed) JOHN KEAN.

George M. McCarthy,
State Tax Commission New Jersey,
February 26, 1912.

MR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The report for 1910 is one of the finest pieces of work of its kind issued by the State.

Very truly yours,

(Signed) GEORGE M. McCARTHY.

TESTIMONIALS.

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Trenton, N. J., October 12, 1906.

M. Dear Mr. Morse:—

Permit me to thank you for the very valuable and desirable books you sent me. I appreciate your thoughtfulness very much.

Sincerely yours,

(Signed) BARTON B. HUTCHINSON.

Counselor at Law, Trenton N. J.

142 Broad St., Elizabeth, N. J.
March 12, 1903.

My Dear Mr. Morse:—

I am in receipt of copies of your Annual Report as Curator of the Museum. I have looked over them with a great deal of interest and pleasure and congratulate you on the preparation of such an interesting work.

Yours truly,

(Signed) FOSTER M. VOORHEES.

November 2nd, 1907.

HON. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Thank you very much for your pleasant note of October 31st, and a copy of your last Museum Report, which I am very glad to have, and which I expect to take much pleasure in looking over as soon as the campaign is ended.

With best wishes, believe me,

Yours sincerely,

(Signed) FRANKLIN MURPHY.

DEPARTMENT OF COMMERCE AND LABOR.
BUREAU OF FISHERIES.

Washington D. C., October 1, 1908.

DR. S. R. MORSE,
*Curator New Jersey State Museum,
Trenton, N. J.*

Sir:—

Allow me to express my appreciation of the receipt of the Annual Report of the New Jersey State Museum containing the mammals of New Jersey, and other supplemental reports.

It makes an excellent addition to the volumes of Fishes and Amphibians already received from you and form handy reference books during biological work.

Sincerely,

(Signed) T. E. B. POPE.

14 REPORT OF NEW JERSEY STATE MUSEUM.

J. S. Frelinghuysen,
76 William Street, New York,
October 19, 1906.

MR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

I have your favor of the 11th inst., and beg to thank you most sincerely for your kindness in sending me copy of the State Museum Report.

Yours very truly,

(Signed) J. F. FRELINGHUYSEN.

LOUISIANA STATE MUSEUM,
NEW ORLEANS.

September 28th, 1908.

PROF. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Dear Sir:—

In the name of the Board of Curators of the Louisiana State Museum, I beg to extend to you our thanks for your splendid report of the New Jersey State Museum, which is a very valuable contribution to the natural history of the State.

We are also interested in the report of the participation of the museum in the Jamestown Exposition, and your very fine views of the exhibit vividly recall to the writer's mind your splendid display which we have inspected with much pleasure.

You and your museum are certainly to be congratulated upon the results that you have achieved and the promising future that is before you.

Again thanking you for the repoort, we remain,

Yours truly,

(Signed) ROBERT GLENK, Sec'y.

STATE OF NEW JERSEY,
SENATE CHAMBER.

Paterson, N. J., October 19th, 1906.

S. R. MORSE, ESQ.,
Curator State Museum,
Trenton, N. J.

My Dear Mr. Morse:—

I received your state museum report and am very much pleased with it. I thank you for sending me these copies, as I am very much interested in the fish of New Jersey.

Yours very truly,

(Signed) WOOD McKEE.

TESTIMONIALS.

15

STATE OF NEW JERSEY,
FISH AND GAME COMMISSIONERS.

Long Branch, N. J., October 18, 1906.

MR. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Your report is going to be in great demand by libraries, museums, natural history scientists and school teachers. I have had a great many inquiries about it already. We could also use it as the best work we have on fish and game published by the State. I could make that take the place of the book formerly published by the Commission.

Yours very truly,

(Signed) BENJ. P. MORRIS,

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA.

Home Office, Newark, N. J.,
October 30, 1906.

Dear Sir:—

I am very much pleased to have the copy of the State Museum Report which you were good enough to send me, and I beg to thank you for your courtesy.

Believe me,

Very truly yours,

(Signed) JOHN F. DRYDEN,
President.

New York, October 29, 1906.

S. R. MORSE, ESQ.,
*Curator, State House,
Trenton, N. J.*

Dear Mr. Morse:

I received the report of the State Museum and thank you for the same. It is very fine.

Very truly yours,

(Signed) EDMUND W. WAKELEE.

NEW YORK AQUARIUM.

Battery Park,
New York, October 12, 1909.

MR. S. R. MORSE, *Curator,*
N. J. State Museum,

My Dear Sir:

I am indebted to you for a copy of your Museum document on the Birds of New Jersey, for which please accept my thanks and congratulations.

Very sincerely yours,

(Signed) C. H. TOWNSEND,
Director.

16 REPORT OF NEW JERSEY STATE MUSEUM.

NEW YORK STATE EDUCATIONAL DEPARTMENT.
SCIENCE DIVISION.

Director's Office, State Hall,
Albany, N. Y., October 9, 1908.

S. R. MORSE, Esq.,
Curator, New Jersey State Museum,
Trenton, N. J.

My Dear Sir:

I beg to acknowledge the receipt of your report on the mammals of New Jersey. In my judgment this is a very useful and interesting work and does distinctive credit to your institution.

Very truly yours,

(Signed) JOHN M. CLARKE,
Director.

STATE OF MAINE.

OFFICE OF CHAIRMAN OF COMMISSIONERS OF INLAND FISHERIES AND GAME.
Augusta, Maine, October 12, 1906.

PROF. S. R. MORSE,
Curator, New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I have received copy of your Museum's last report—"The Fish of New Jersey," and wish to thank you for the same. It is a very valuable publication, and will be very handy for reference in our work.

Thanking you for your kindness in thus remembering us, I am,

Yours truly,
(Signed) LEROY T. CARLETON,
Chairman.

COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE—DIVISION OF ZOOLOGY.

Harrisburg, Pa., February 10, 1911.

PROF. S. R. MORSE,
Curator of New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I congratulate you and Professor Smith upon the recent issue of a revised catalog of "The Insects of New Jersey." I write to ask if you will kindly favor me by sending me a personal copy. We are intending to follow your good work in which your State has been such an excellent pioneer, as we hope to have legislation for the publication of such a catalog.

Hoping to reciprocate favors in full in any way possible, and assuring you of my high appreciation of your service, I am,

Very truly yours,

(Signed) H. A. SURFACE,
Economic Zoologist.

COURT OF ERRORS AND APPEALS OF NEW JERSEY.

16th October, 1909.

My Dear Sir:

I have received the Report for 1909. As I am particularly interested in the question of New Jersey birds and New Jersey fishes, the book was of special value to me.

The report is a credit to the State, I thank you for the copy you sent me.

Faithfully yours,

(Signed) JAMES B. DILL.

To:

MR. SILAS R. MORSE,
*Curator, New Jersey State Museum,
Trenton, New Jersey.*

NEW JERSEY AGRICULTURE EXPERIMENT STATION.

New Brunswick, N. J.

MR. S. R. MORSE,
Trenton, N. J.

My dear Mr. Morse:

Last evening, I spent part of my time looking over your report, and desire to congratulate you upon the completeness of the report and the excellence of the cuts accompanying it. It is surely a great credit to the State.

Very truly yours,

(Signed) E. B. Voorhees,
Director.

Publications Received by the New Jersey State Museum.

- Annual Report of the Philadelphia Museums, 1911.
 Eighth Annual Report of the Newark Shade Tree Commission.
 Museums of the Brooklyn Institute of Arts and Science Report for 1911.
 Ecological Successions by Victor Shelford.
 University of Illinois Bulletin No. 52.
 University of Illinois Bulletin No. 51.
 University of Illinois Bulletin No. 50.
 Zoological Society Bulletin No. 52.
 University of Illinois, Agricultural Experimental Station Bulletin No. 152.
 American Museum of Natural History, General Guide of Exhibition Hall. No. 35.
 University of Illinois, Agricultural Experiment Station Circular No. 155.
 Camden Board of Trade Journal, January, 1912.
 University of Illinois Bulletin No. 53.
 The American Museum of Natural History Journal, Vol. 12, No. 1.
 Zoological Society Bulletin No. 49.
 Bulletin of the Pennsylvania Museums.
 Annual Report of the Philadelphia Museums, 1910.
 Annual Report of the Philadelphia Museums, 1909.
 Annual Report of the Philadelphia Museums, 1908.
 Annual Report of the Philadelphia Museums, 1907.
 Annual Report of the Philadelphia Museums, 1905.
 University of Illinois Bulletin No. 54.
 University of Illinois, Agriculture Experiment Station, Bulletin No. 153. Abstract.
 University of Illinois, Agriculture Experiment Station, Bulletin No. 154.
 Camden Board of Trade Journal, February, 1912.
 University of Illinois Bulletin No. 55.
 Forty-second Annual Report of the Trustees of the American Museum of Natural History.
 Bulletin of the Charleston Museum, February, 1912. Vol. 12, No. 2.
 Camden Board of Trade Journal, March, 1912.
 Bulletin of the New York Botanical Garden.
 Bulletin of the Charleston Museum. Vol. 13, No. 3.
 University of Illinois Bulletin No. 56.
 University of Illinois Bulletin Soil Report No. 1.
 The American Museum of Natural History, Journal Vol. 12, No. 3.
 Camden Board of Trade Journal, April 1912.
 University of Illinois Agriculture Experiment Station. Bulletin No. 155.
 Bulletin of the Pennsylvania Museum, April, 1912.
 Zoological Scientific Contribution of the New York Zoological Society.
 Quarterly Journal of Experimental Physiology, Vol. 5, No. 1.
 Studies of Sex-Determination in Amphibians.
 The Effect of Some Amido-Acids on the Development of the Eggs of Arbacia and of Chaetopterus.
 U. S. Department of Agriculture, Experiment Station Record, Vol. 26, No. 5.
 Smithsonian Institution, U. S. National Museum, Bulletin 78.
 Bulletin of the Detroit Museum of Art.
 American Museum Journal, Vol. 12, No. 4.

- University of Illinois, Bulletin No. 59.
Camden Board of Trade Journal, May, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 51.
American Museum of Natural History, Vol. 12, No. 5.
The Chemical Analysis of the Ash and Smooth Muscle, Wistar Institute.
U. S. Department of Agriculture, Biological Survey, Bulletin No. 42.
University of Illinois, Bulletin No. 58.
Camden Board of Trade Journal, June, 1912.
University of Illinois, Bulletin No. 60.
Bulletin of the Pennsylvania Museum, July, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 52.
University of Illinois Bulletin, Agriculture Experiment Station, No. 158.
University of Illinois Bulletin, Agriculture Experiment Station, No. 157.
University of Illinois Bulletin, Agriculture Experiment Station, No. 156.
University of Illinois Bulletin, Agriculture Experiment Station, Soil Report No. 2.
U. S. Department of Agriculture, Farmer's Bulletin 510, Game Laws for 1912.
U. S. Department of Agriculture, Bureau of Biological Survey Circular 88.
Camden Board of Trade Journal, August, 1912.
Camden Board of Trade Journal, September, 1912.
N. Y. Zoological Society, Vol. 1, No. 10.
Industrial Philadelphia, Foreign Trade Bureau.
N. Y. Zoological Society Bulletin, Vol. 16, No. 53.
Camden Board of Trade, October, 1912.
U. S. Department of Agriculture, Bureau of Biological Survey, Circular No. 87.
Bulletin of the Penn. Museum, October, 1912.
Bulletin of the Detroit Museum of Art, Vol. 6, No. 4.
Bulletin of the Wisconsin Natural History Society, Vol. 9, No. 4.
University of Illinois, Agriculture Experiment Station, Bulletin No. 151.
Report of the Forestry Department, Indiana, 1911.
Seventh Annual Report of the Newark Shade Tree Commission.
Educational Appliances for the Instruction of Natural History.
University of Illinois Annual Register, 1911-1912.
The Training School at Vineland, 1911.
The Detroit Museum of Art, Annual Report.
State of New Jersey, Road Commissioner's Report.
Museums of the Brooklyn Institute of Art and Sciences, Report.
Proceedings of the American Association of Museums, Vol. 9.
Report of the Illinois State Museum of Natural History.

Additions to the Museum Specimens by Purchase

BIRDS.

Audubon's Shear Water, Female.
Henslow's Sparrow, Male.
Glossy Ibis, Male and Female.
Scissor-tailed Flycatcher, Male and Female.
Blue-gray Gnatcatcher, Male.
European Woodcock, Male and Female.
Passenger Pigeon.

MAMMALS.

Two Fawns.
Buffalo Head.
Elk Head.
Black Bear.
Jumping Mouse.
Ground Squirrel.
Wild Cat.
Mole.
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REPTILE.

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PART 2.

INDEX

Of the Common Names of Fish found in the Report
of 1905, and in the Supplements of the
Reports of 1906, 1907 and 1908.

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suckers	159		147	
clip, Cover	397			
club fish, American	103			
Coachman	310	317		
fishes	310			
Cod	416	344	187	
fish	416			
fishes	413, 416			
fish shark	67			
shark	67			
sharks	416			
cod, Tom	415		187	
cods, Tom	415			

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Common bull head	169			
eastern pickerel	177			
herring	93			
pampano	263			
puffer	364			
sculpin	373			
speckled skate		259		
sun fish	294, 295	313		380
Conger	122			
eel	122			
eel pout	406			
eels	121, 122			
Conner	343			
core, Apple	241			
Cornet fishes	228			
Cover clip	397			
Cow fish	79, 80	336		
Cow nosed ray	79	263		
nosed rays	79			
Crab eater	267	307		
Crappie	437	350		
Crappies	436			
Crest gilled fishes	230			
Crevale	254			
Crevalles	254			
Crimson darter	302			
Croaker		324, 325	179	
Croakers	328			
Crucian carps	430			
Cucumber fish	366			
Cunners	343			
Cutlass fish	247			377
fishes	246			
Cut lips minnow	154			
minnows	154			
Cusk	421			
eels	407			
Sand	408		185	
Cusks	421			
cybium, Spotted	244			

D.

Dabs, Mud	395	341		
Dace	135, 134, 150, 151			
Black nosed	149, 150, 151	276	147	
Long nosed	150	275		
Rosy	134	269		
Striped	151			
Damsel fishes	287			
Darter	299, 302	314		
Crimson	312			
Fusiform	302			
Sand	299			
Tessellated	299		174	381

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claspers, Little	302			
Deceptive sun fish	289	312		
Devil fish	76, 80			
fishes	80			
devils, Sea	80			
Ditch pike	175			
Doctor fish	356	330		
Dog fish	60, 188, 193	330		
Spiny	67			
Dog shark	60	254, 255		
Dog sharks	60, 66, 416			
Spiny	67			
Dog sherk	60			
Dollar fish	260, 270		167	
Dolphin	273			
Dolphins	272, 273			
dory, Hair finned	260			
Hair finned silver	260			
Spinous	262			
Double bearded flying fish	211	288		
Drum fish	338		180	
drum, Banded	338	326		
Big	338			
Black	338	326		385
Gray	338			
Red	333			384
drums, Red	333			384
Sea	338			
Dusky shark	61	256		
E.				
Eagle rays	78, 79			
Eared sun fishes	289			
eater, Bone	242			
Crab	267	307		
Man	61	256		
Spawn	141			
Eel	119	268	139	361
pout	406			
Conger	406			
pouts	405, 406			
eel, Bull headed	119			
Conger	112			361
Sand	408			
Sea	122			
Eels	118, 119			
Conger	121, 122			
Cusk	407			
Electric ray		260		
rays		260		
skate		260		
Electric star gazers	399			
European topes		253		
eye, Goggle	437	301		
Red	437			
eyes, Nine	48			

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F.				
Fall fishes	130	333		
herring	94			
mackerel	239			
Fat heads	129			
Fiatolas	264			
File fish	357, 358	333		
fishes	357			
file, fish, Orange	359		182	
Thread	358			
fin, Red	43			
Silver	142	272		
Fine scaled suckers	155			
fins, Scaly	347			
fish, Angel	348, 354	328, 330		
Balloon	366			
Bellows	425			
Bill	204, 207, 231			
Black	308, 344	328		
Blue	265, 329			378
Bony	103			
Butter	404, 56, 263			
Cat	166, 167, 169			
Cod	416			
Cow	79, 80			
Cucumber	366			
Cutlass	247			377
Dog	60, 188, 193			
Dollar	260, 270			
Drum	338			
Devil	76, 80			
File	357, 358	333		
Flat	396			
Flying	211, 380, 382	288		
Fool	358			
Frost	115, 117, 415			
Gar	89			
Gizzard				361
Globe	368			
Goat	327			
Gold	430			
Goose	425			
Harvest	270			
Head	368, 425	336		
Hog	299			
Horse	233, 234			
Killi	185, 198			
Killie	188, 193			
King	335, 336			385
Lizard	117			
Lump	378			
May	185			372
Moon	259			378

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fish, Mouse	427			
Mud	180			
Mud Sun	278			379
Oyster	411			390
Pig	380, 382			
Pilot	251			
Pipe	229, 213			
Rabbit	362			388
Red	333			
Rock	306			
Rudder	269			
Saw	69			
Silver	213			
Silver Gar	204			
Spotted Balloon	366			
Spotted cat	431			
Squirrel	318			
Sun	282, 359, 368			
Suck	387			
Swell	364			
Sword	204, 248			
Tile	340			
Toad	364, 411			
Trigger	357			386
Trumpet	229			
Trunk	390			387
Unicorn	359			
Weak	69, 329			
Wind	135			
Wolf	405			
Fishes	50			
fishes, Alligator	376			
Amber	251			377
Black	344			
Blue	264, 265			378
Burr	366			388
Butter	270			378
Butterfly	349, 350			
Carp like	125			
Cat	164, 431			
Coachman	310			
Cod	413, 416			
Cornet	228			
Crest gilled	230			
Cutlass	246			377
Damsel	287			
Devil	80			
Doctor	356			
Fall	130			
File	357			
Flat	389			
Flying	210, 211			
Frog	426			
Hairy	366			

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fishes, Half gilled	223			
Hard skinned	356			
Harvest	269			
Head	368			
Isospondylous	90			
Jugular	398			
Killi	183, 184			
King	335			
Labroid	342			
Leather	358			
Lizard	116, 117			
Lump	378			
Mail cheeked	369			
Moon	260			378
Mouse	426			
Needle	203			
Parrot	346			
Pediculate	424			
Perch like	212, 235			
Pig	319			
Pike like	174			
Pilot	251			377
Pipe	230, 231			377
Plough	259			
Porcupine	365			
Pork	319			
Rabbit	362			388
Rain water	197			
Ribbon	247			
Rock	370			
Rose	370			
Rudder	271			
Saw	68, 69			
Shark like	50			
Sergeant	267			
Spade	347, 348			
Spinny rayed	201			
Sun	276, 295, 436			
Surgeon	355			
Sword	248			
Synentognathous	203			
Thread	259			
Tile	340			
Toad	411			
Trigger	356, 357			386
True	82			
Trumpet	229			377
Trunk	360			387
Weak	329			384
Wolf	404, 405			
Wrasse	342			
Flat fish	396			
New York	396			
Flat fishes	389			

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Flounder	393, 396			
Long toothed	393			
Oblong	393			
Sand	390			
Spotted	390			
Summer	393	341		389
Winter	396			
Flounders	389			
Hooked snout		341		
Little	392	339		
Winter	396			
Fluke	393, 395		185	
Flying fish	211, 380, 382		183	
fishes	210, 211			
gurnards	383			
robin	384			
flying fish, Double bearded.....	211			
Single bearded	211			
Fool fish	358			
Frog fishes	426			
Frost fish	115, 117, 415		188	
Fusiform darter	302			

G.

Gaff topsail cat fishes	165			
Gall	343			
Gar	89, 204, 206			
fish	89	284, 285		
pike	89	263		
pikes	87, 88, 89			
gar, Big		284		
Green	204			373
Silvery	204			
gazer, Star	372, 399, 401			
gazers, Star	398	336		
Gizzard shad	105			
Globe fish	368			
Goat fish	327			
Gobies	385			
Naked	386			
Goby	386			
Variegated	386			
Goggle-eye	437			
scad		301		
Goggle-eyed perch	437			
Gold fish	430			
thread shiner	135	269		
Goodies	69, 334			
Goody	334			
goody, Cape May	334	324		
Goose fish	425			
Grass bass	437			
Gray drum	338			
Gray snapper		317		

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Great sculpins	373			
tunnies	241	292		
tulny	241			
Green gar	204		163	
pipe fish	231			
Grouper	308			
Red	308			
Groupers	308			
Grunt	318			
Black	313			
Grunters	317			
Grunts	318			
Gudgeon	127, 128, 135, 141	271	144	
Gudgeons	127			
Gunnell	404			
Gunnells	404			
gurnard, Spinous	380			
Gunards	379			
Flying	383			

H.

Haddock	417	346		
Haddocks	417			
Hair finned dory	260			
silver dory	260			
Hairy box fish		336		
fish	366			
Hair tail	246			
Hake	336, 418, 419, 422			392
Hakes	418, 422		187	
Half beaks	208			374
Ribbon	209	288		
Half gilled fishes	223			
Halibut	393			
Hammer head	65	257		
head sharks	64			
heap shark	65			
Hard head	103			
skinned fishes	356			
tail		298	167	
Harvest fish	270			
fishes	269			
pike	204			
Head fish	368, 425	336		
fishes	368			
head, Blunt	188, 193			
Bull	169, 373			
Hammer	65			
Hard	103			
Horny	153	276		
Sheep's	323			
heads, Fat	128			
Horny	153			
Sheep's	323			

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Hedgehog ray	70			
Hedgehog skate		257		
Herring	94, 95	264		
Black Belly			137	357
Common	93			
Fall	94			
River	95			
Round	93	264		
Thread	102	266		
Herrings	92, 93			
Round	93			
Thread	102			
Hickory shad	94, 105		136	
Hog choker	397			
fish	299		176	
Hooked snout flounder		341		
Horned pout	166, 169, 431			
Horny head	153	276		
heads	153			
Horse fish	233, 234			
mackerel	265	292		
horse, Sea	233	291		
horses, Red	163			
Sea	233			
Hound eared sun fish	292			

I.

Indian remora	387			
Isabilitas	354			
Isospondylous fishes	90			
Irish sheep's head		328		

J.

jack, Bone	242			
Skip	242, 262			
jacket, Leather		334		
Jenny Lind	253			
Jugular fishes	398			
Spineless	413			
Jurel	258			

K.

killi fish, Barred		156	373
fishes	183, 184	155	
kili fish, Barred		156	373
Least		163	
Killie fish	188, 193		
Little	197		
Killy	188, 193		
King fish	335, 336	325	179
fishes	335		385

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L.				
Labroid fishes	342			
Lake cat fish	431	349		
Lamper eel	48			351
Lamprey	48			351
Green	48			
River	48			
Sea	48			
Lampreys	48		130	
True	49			
lance, Sand	410		186	
Land locked salmon	434			
Large mouthed bass	438			
black bass	438			
launces, Sand	409			
Leather carp	430			
fishes	358			
jacket		334		
Leech		338		
Leopard shark	61	253, 255		
light, Day		338		
Window	390			
lind, Jenny	253			
Ling	417, 419, 420			
Thimble eyed	419, 420			
Little cat fish	171	349		
darters	302			
flounders	392	339		
killie fish	197			
tunnies	241			
Lizard fish	117			
fishes	116, 117			
Long eared sun fish	146, 292	313		380
nosed dace	150, 151			
toothed flounder	393			
finned anchovy		268		
Log perches	299			
Lump fish	378			
fishes	378			
suckers	377			

M.

Mackerel	238, 239, 265	291	165
porbeagle	54	254	
shark	56		
sharks	54, 56		
scads	254		
mackerel, Boston	238		
Chub	239		166
Fall	239		
Horse	265	292	166
Snap	265		

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mackerel, Snapping	265			
Spanish	244			
Thimble eye	244			
Yellow	254, 256			
Mackerels	236, 237	291, 301		
Spanish	244			
Mademoiselles	332			
Mad toms	171			
Mailed cheek fishes	369			
maker, Shoe	259			
Mamoose	85, 86			
Mamouche	85, 86			
Man eater	61			
eating shark	61			
Many spined stickleback	244			
Marine cat fish	166			
May fish	185		155	372
Menhaden	56, 103			
Menhadens	103			
Miller's Thumb	169	336		
Minnie	145			
Minnow	146, 185, 188, 193			
minnow, Abbott's	146			
Attractive	148			
Barred	193			
Blue green			145	366
Blunt nosed	129	268		
Bridled	139		142	
Cut Lips	154			
Mud	180			371
Pursy	198	281	157	
River	188			
Silvery	14, 127			362
Swallow			142	
minnows, Cut lips	154			
Mud	180			
Pursy	198			
Top	196		158	
Steel side		273		
Minny	143			
Mirror carp	430			
Mojarras	325			
Majorritas	325			
Moon fish	259	306, 304	167	378
fishes	260			
Moose	85			
Mossbanker	103	266	139	360
Mouche				354
Mouse fish	427	348		
fishes	426			
mouth, All	425			
Satchel	425			
Morays	123			
Tropical	124			

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Mud blower	417			
cat fish	169, 171, 173			
dabs	395	341		
fish	180			
minnow	180	281		
minnows	180		154	
perch	275			
pike	175			
shad	105			
sucker	158			
sun fish	278, 437	311		379
sun fishes	278			
Mullet	146, 159, 218, 219			375
mullet, Red	327			
Striped	218			
White	219	289		
Mullets	217, 218		165	
Sur	326			
Mummichog	188	282		372
Muskallunge	435	350		

N.

Naked gobies	386	337		
ned, Yellow	146, 298			
Needle fishes	203			
New York flat fish	396			
sole	397			
stickleback	225			
Nibbler	343			
Nine eyes	48			
spined sticklebacks	224			
Northern barracuda	222			

O.

Oblong flounder	393			
Ocean sun fish	368			
sun fishes	368			
trout	103			
Oceanic cat fish	165			
Orange file fish	359			
Oswego bass	438			
Oyster fish	411		187	391

P.

Pampano	263		167	378
Common	263			378
Round	262	301		
Pampanos	249, 262	307		
panes, Window	390	338		
Parrot fishes	346			
Pediculate fishes	424			
Peerch	298, 307			

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Perch	298, 307	322, 323		
Black	313			
Goggle eyed	437			
Mud	275			
Pike	439			
Pirate	275	310		379
Red Sea	370			
River	298			
Sand	299			
Silver	332	322, 323		384
Triple tailed	313			
White	307	315, 322	175	382
Yellow	298, 307		174	381
Perches	298, 439			
Log	299			
Pirate	274, 275			
Perch-like fishes	212, 235			
Pickarel	175, 177	280	153	370
Banded	175			
Chain	177	280		
Common eastern	177			
Pigeon string ray	76			
Pig fish	380, 382	390	165	
Rock	380			
Sand	382			
Pig fishes	319			
Pike	175, 177			
perch	439			
like fishes	174			
shiner	134			
pike, Ditch	175		152	370
Gar	89	260		
Harvest	204			
Mud	175			
Sea	204			
Short billed	175			
Silver	115			
Wall eyed	439			
Pikes	174, 175, 435			
Gar	87, 88, 89			
Wall eyed	439			
Pilot fish	251			
fishes	251			
Sharks	251			
Pipe fish	229, 231	290		377
fishes	230, 231			
pipe fish, Green	231			
Pirate	275			
perch	275	310		379
perches	274, 275			
Plough fishes	259			
poachers, Sea	277			
Poison cat fish	171, 173			
Pollock	414	344		
Pollocks	414			

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porbeagle, Mackerel	50			
Porbeagles	54			
Porcupine fishes	365			
Pork fishes	319			
Porgee	321		177	
Rhomboidal	323			
Sand	321			
Porgies	320			383
Porgy	321, 334			383
Big	321			
Possum ray	72			
Sea	72			
pounder, Ten	91			
pounders, Ten	91			
pout, Eel	405, 406			
Puffer	362, 364	336	182	
Common	364			
Southern			182	
Puffers	361			388
Pursy minnow	198			
minnows	198			

Q.

Quinnat salmon	432
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R.

Rabbit fish	362			388
fishes	362			
Rain water fishes	197	283	157	
raven, Sea	375			
ravens, Sea	375			
ray, Brier	72			
Cow nosed	79	263	132	
Hedge Hog	70			
Round Sting		261		
Sting	76	261	131	353
Say's Sting		261	123	
rays, Cow nosed	79			
Eagle	78, 79			
Sting	72, 75, 76			
Red bellied sun fish	292			
drum	333			
drums	333			
eye	437			
fin	43	272, 273	145	
fish	333			
grouper	308			
horses	163			
mullet	327			
sea perch	370			
snapper	317			
Red mouth, Speckled	319	317		

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Remora	388	338		
Indian	387			
White tailed	387			
Remoras,	56, 386, 388			
Requiem sharks	61			
Rhomboidal porgee	323			
Ribbon fish	247			
half beaks	209	288		
River cat fish	166			
herring	95			
minnow	188			
perch	298			
sucker	155, 163			
sun fish	292			
Roach	135, 146	269	141	364
Roache		269		
robin, Flying	384			
Round	254			
Sea	380, 382			
Rock	306	314	175	382
bass	437			
fish	306			
fishes	370			
minnow		281		
pig fish	380			
sun fish	282			
Rose fishes	370			
Rosy dace	134	269		
Rough catalufas	312			
scaled silversides	213			
Round herring	93			
herrings	93	264		
pampano	262	306		
robin	254			
sting rays	76	261		
Rudder fish	269	308		
Black	272			
Rudder fishes	271			
rudder fishes, Black	272			

S.

Salt water cat	165			
Saibling	434	295		
Sailor's choice	323	320		383
Sail fish		294, 295		
Salmon	432, 433			
Salmon	112		139	
salmon, Atlantic	433			
Land Locked	434			
Quinnat	432			
Sand cusks	408			
darter	299			
eel	408			
flounder	390			
lance	410		186	390

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Sand launces	409			
perch	299			
pig fish	382			
porgee	321			
shark	52	254		
sharks	52			
smelts	216			
Santiago	16			
Satchel mouth	425			
Sauries	206, 207			
Saw fish	69			
fishes	68, 69			
Say's sting ray	77	261		
Scad	254			
goggle eye		301		
Big eye		300		
scads, Mackerel	254			
Scaly fins	347			
Sculpin	373			
Common	373			
Sculpins	371	337		389
Great	373			
Scup	321			
Scups	321			
Sea bass	304, 308		176	
cat	165			
cat fish	165			368
devils	80			
drums	338			
eel	122			
horse	233	291	165	
horse, White spotted		291		
pike	204			
poachers	377			
possum	72			
raven	375			
ravens	375			
robin	380, 382		183	389
tog	344	328		
Sea bass, Black	308	316		
Searer	246			
Sergeant fishes	267			
Seriola, Banded	251			
Shad	99	265	138	358
Gizzard	105			360
Hickory	94, 105		136	355
Mud	105			
Young	135			
Shadine	94, 103			
Suckers	387			
Shark	52, 61			
shark, Bonnet headed	65	257		
Cod	67			
Cod fish	67			

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shark, Dusky	60, 61	256		
Hammer head	65	257		
Leopard	61	255		
Mackerel	56	254		
Man eating	61	256		
Sand	52	254	121	
Sharp nosed	63	257		
Shovel nose	52, 65			
Small blue	62			
Small white		256		
Spotted	61	255		
Thorn back	67			
Thresher	53			
White	62	256		
Shark like fishes	50			
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Of the Popular Names of Insects found in the Report of 1909

Few insects have popular names that are definitely applicable to one species only. The same insect may be known under different names in different parts of the State, and the same name is often applied to quite different insects. Quite usually the food plant is associated with a general term, as wheat louse, melon louse, apple louse, etc., etc. Any references to popular terms of this character must necessarily be somewhat indefinite, because there are half a dozen species of plant lice on apple, two or three dozen species of galls on oak and so on. Throughout this list I have given the popular names in general use in this State, and the index gives also a number of the crop headings with the chief pests infesting them.

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